

In the Claims:

1. (Currently amended) A conduit for transferring a flowable material, comprising:
a wall member at least partially enclosing an inner region, the inner region being adapted to receive the flowable material and to facilitate transfer of the flowable material from a first location to a second location; and
~~a plurality of optical fibers being at least one of formed within~~ an outer layer of the wall member and ~~disposed on~~ having an outer surface of the wall member, ~~the optical fibers being that includes at least one illumination member adapted to emit light outwardly therefrom, the illumination member being adapted to be activated by a receiving vehicle.~~
2. (Currently amended) The conduit of Claim 1, wherein the ~~wall member includes a cylindrical wall member~~ at least one illumination member comprises at least one of an optical fiber, a light emitting diode, an electroluminescent coating, a phosphor coating, and an ultraviolet activated substance.
3. (Original) The conduit of Claim 1, wherein the wall member includes a flexible aerial refueling hose.
4. (Original) The conduit of Claim 1, wherein the wall member includes a refueling boom.
5. (Currently Amended) An apparatus for transferring a flowable material, comprising:
a tank adapted to contain a flowable material;
a conduit operatively coupled to the tank and adapted to receive the flowable material and to facilitate transfer of the flowable material between the tank and a second location, the conduit including a wall member; and
~~a plurality of optical fibers being at least one of formed within~~ an outer layer of the wall member and having disposed on an outer surface of the wall member, ~~the optical fibers an~~



illumination member adapted to be energized by a receiving vehicle being adapted to emit light outwardly therefrom.

6. (Currently Amended) The apparatus of Claim 5, wherein the illumination member conduit includes a cylindrical wall member includes at least one of an optical fiber, a light emitting diode, an electroluminescent coating, a phosphor coating, and a ultraviolet activated substance.

7. (Original) The apparatus of Claim 5, wherein the conduit includes a flexible aerial refueling hose.

8. (Original) The apparatus of Claim 5, wherein the conduit includes a refueling boom.

9. (Original) The apparatus of Claim 5, further comprising a pump operatively coupled to the tank and to the conduit and adapted to pump the flowable material from the tank to the conduit.

10. (Currently Amended) The apparatus of Claim 5, ~~further~~ wherein the approaching vehicle comprising comprises an illumination control system operatively coupled to the ~~plurality of optical fibers~~ illumination member and adapted to control illumination ~~of the plurality of optical fibers~~ from the conduit.

11. (Currently Amended) An aircraft, comprising:

a fuselage;

a propulsion system operatively coupled to the fuselage; and

an aerial refueling system coupled to the fuselage and including:

a tank adapted to contain a flowable material;



a conduit operatively coupled to the tank and being adapted to receive the flowable material and to facilitate transfer of the flowable material between the tank and a second location, the conduit including a wall member; and

~~a plurality of optical fibers being at least one of formed within~~ an outer layer of the wall member and having an illumination member disposed on outer surface of the wall member,

wherein the ~~optical fibers being adapted~~ illumination member is adapted to be energized by a receiving vehicle to emit light outwardly therefrom.

12. (Original) The aircraft of Claim 11, wherein the conduit includes a cylindrical wall member.

13. (Original) The aircraft of Claim 11, wherein the conduit includes a flexible aerial refueling hose.

14. (Original) The aircraft of Claim 11, wherein the conduit includes a refueling boom.

15. (Currently Amended) The aircraft of Claim 11, wherein the receiving vehicle is a receiving aircraft ~~further comprising a pump operatively coupled to the tank and to the conduit and adapted to pump the flowable material from the tank to the conduit.~~

16. (Currently Amended) The aircraft of Claim ~~11~~ 15, ~~further comprising the receiving aircraft includes an ultraviolet light source illumination control system operatively coupled to the plurality of optical fibers illumination member and adapted to illuminate the illumination member, the illumination member further having an ultraviolet energized substance control illumination of the plurality of optical fibers.~~

17. (Currently Amended) A method of transferring a flowable material, comprising:



providing a conduit operatively coupled to a tank containing the flowable material, the conduit being adapted to receive the flowable material and to facilitate transfer of the flowable material between the tank and a second location of a receiving vehicle, the conduit including a wall member having an illumination member adapted to be operable by the receiving vehicle ~~plurality of optical fibers~~ being at least one of formed within an outer layer of the wall member and disposed on an outer surface of the wall member;

illuminating at least a portion of the illumination member ~~optical fibers~~; and

transferring the flowable material through the conduit from the tank to the second location of the receiving vehicle.

18. (Original) The method of Claim 17, wherein providing a conduit operatively coupled to a tank includes providing a conduit operatively coupled to a refueling tank of a tanker aircraft.

19. (Currently Amended) The method of Claim 17, wherein the illumination member ~~providing a conduit including a wall member having a plurality of optical fibers~~ includes at least one of an optical fiber, a light emitting diode, an electroluminescent coating, a phosphor coating, and a ultraviolet activated substance ~~providing a conduit including a wall member having a plurality of optical fibers disposed longitudinally along the wall member.~~

20. (Currently Amended) The method of Claim ~~19~~ 17, wherein the illumination member is disposed longitudinally, disposed circumferentially, or disposed longitudinally and circumferentially ~~providing a conduit including a wall member having a plurality of optical fibers includes providing a conduit including a wall member having a plurality of optical fibers circumferentially spaced along the wall member.~~

21. (Original) The method of Claim 17, wherein transferring the flowable material through the conduit from the tank to the second location includes pumping the flowable material from the tank.



22. (Original) A conduit for transferring a flowable material, comprising:

a wall member at least partially enclosing an inner region, the inner region being adapted to receive the flowable material and to facilitate transfer of the flowable material from a first location to a second location, the wall member including an luminescent outer layer being at least one of integrally formed with the wall member and disposed on an outer surface of the wall member, the luminescent outer layer being adapted to emit light outwardly therefrom.

23. (Currently Amended) The conduit of Claim 22, wherein the luminescent outer layer includes ~~an~~ at least one of a phosphor substance, an ultraviolet-energized substance, or an electroluminescent material.

24. (Currently Amended) The conduit of Claim 22, wherein the ~~luminescent outer layer~~ includes a phosphor substance is activated by a receiving vehicle.

25. (Currently Amended) The conduit of Claim 22, wherein the ~~luminescent outer layer~~ includes an ultraviolet-energized substance is activated by a receiving vehicle.

26. (Original) The conduit of Claim 22, wherein the wall member includes a cylindrical wall member.

27. (Original) The conduit of Claim 22, wherein the wall member includes a flexible aerial refueling hose.

28. (Original) The conduit of Claim 22, wherein the wall member includes a refueling boom.

29. (Original) An apparatus for transferring a flowable material, comprising:

a tank adapted to contain a flowable material; and

a conduit operatively coupled to the tank and adapted to receive the flowable material and to facilitate transfer of the flowable material between the tank and a second location, the conduit including a wall member and being adapted to receive the flowable material and to facilitate transfer of the flowable material from a first location to a second location, the wall member including a luminescent outer layer being at least one of integrally formed with the wall member and disposed on an outer surface of the wall member, the luminescent outer layer being adapted to emit light outwardly therefrom.

30. (Currently Amended) The apparatus of Claim 29, wherein the luminescent outer layer includes at least one of a phosphor substance, an ultraviolet-energized substance, or an electroluminescent material.

31. (Currently Amended) The apparatus of Claim 29, wherein the ~~luminescent outer layer~~ includes a phosphor substance is activated by a receiving vehicle.

32. (Currently Amended) The apparatus of Claim 29, wherein the ~~luminescent outer layer~~ includes an ultraviolet-energized substance is activated by a receiving vehicle.

33. (Original) The apparatus of Claim 29, wherein the conduit includes a cylindrical wall member.

34. (Original) The apparatus of Claim 29, wherein the conduit includes a flexible aerial refueling hose.

35. (Original) The apparatus of Claim 29, wherein the conduit includes a refueling boom.

36. (Original) The apparatus of Claim 29, further comprising a pump operatively coupled to the tank and to the conduit and adapted to pump the flowable material from the tank to the conduit.

37. (Original) The apparatus of Claim 29, further comprising an illumination control system operatively coupled to the plurality of optical fibers and adapted to control illumination of the plurality of optical fibers.

38. (Original) An aircraft, comprising:

a fuselage;

a propulsion system operatively coupled to the fuselage; and

an aerial refueling system coupled to the fuselage and including:

a tank adapted to contain a flowable material; and

a conduit operatively coupled to the tank and adapted to receive the flowable material and to facilitate transfer of the flowable material between the tank and a second location, the conduit including a wall member and being adapted to receive the flowable material and to facilitate transfer of the flowable material from a first location to a second location, the wall member having a luminescent outer being at least one of integrally formed with the wall member and disposed on an outer surface of the wall member, the luminescent outer layer being adapted to emit light outwardly therefrom.

39. (Currently Amended) The aircraft of Claim 38, wherein the luminescent outer layer includes ~~an~~ at least one of a phosphor substance, an ultraviolet-energized substance, or an electroluminescent material.

40. (Currently Amended) The aircraft of Claim ~~39~~ 38, wherein the ~~luminescent outer layer~~ includes a phosphor substance is activated by a receiving vehicle.

41. (Currently Amended) The aircraft of Claim ~~39~~ 38, wherein the ~~luminescent outer layer~~ includes an ultraviolet-energized substance is activated by a receiving vehicle.

42. (Original) The aircraft of Claim 38, wherein the conduit includes a cylindrical wall member.

43. (Original) The aircraft of Claim 38, wherein the conduit includes a flexible aerial refueling hose.

44. (Original) The aircraft of Claim 38, wherein the conduit includes a refueling boom.

45. (Original) The aircraft of Claim 38, further comprising a pump operatively coupled to the tank and to the conduit and adapted to pump the flowable material from the tank to the conduit.

46. (Original) The aircraft of Claim 38, further comprising an illumination control system operatively coupled to the plurality of optical fibers and adapted to control illumination of the plurality of optical fibers.

47. (Original) A method of transferring a flowable material, comprising:
providing a conduit operatively coupled to a tank containing the flowable material, the conduit being adapted to receive the flowable material and to facilitate transfer of the flowable material between the tank and a second location, the conduit including a wall member having a luminescent outer layer being at least one of formed within an outer layer of the wall member and disposed on an outer surface of the wall member;
illuminating the luminescent outer layer;
emitting light outwardly from the luminescent outer layer; and
transferring the flowable material through the conduit from the tank to the second location.

48. (Currently Amended) The method of Claim 47, wherein the luminescent outer layer includes at least one of a phosphor substance, an ultraviolet-energized substance, or an
~~providing a conduit including a wall member having a luminescent outer layer providing a~~
~~conduit including a wall member having an outer layer including an~~ electroluminescent material.

49. (Currently Amended) The method of Claim 47, wherein ~~providing a conduit including a~~
~~wall member having a luminescent outer layer providing a conduit including a wall member~~
~~having an outer layer including a~~ the phosphor substance is activated by a receiving vehicle
equipped with a phosphor activating light source.

50. (Currently Amended) The method of Claim 47, wherein ~~providing a conduit including a~~
~~wall member having a luminescent outer layer providing a conduit including a wall member~~
~~having an outer layer including an~~ the ultraviolet-energized material is activated by a receiving
vehicle equipped with a uv-activating light source.

51. (Original) The method of Claim 47, wherein providing a conduit operatively coupled
to a tank includes providing a conduit operatively coupled to a refueling tank of a tanker aircraft.

52. (Original) The method of Claim 47, wherein transferring the flowable material
through the conduit from the tank to the second location includes pumping the flowable material
from the tank.